GOVERNMENT OF INDIA
SCIENCE AND TECHNOLOGY
LOK SABHA

UNSTARRED QUESTION NO:1590
ANSWERED ON:09.03.2007
GLOBAL POSITIONING SYSTEM .
Singh Shri Sugrib

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether the Government has established Global Positioning System stations ;

(b) if so, the details thereof, State-wise ;

(c) the salient features of such stations; and

(d) the manner in which such stations has been able to monitor the crystal movements ?

Answer

MINISTER OF SCIENCE AND TECHNOLOGY AND MINISTER OF EARTH SCIENCES (KAPIL SIBAL)

(a) Yes, Sir.

(b) A total of 41 (forty one) Global Positioning System (GPS) Stations have been established. These are permanent stations and are operated on a continuous basis. Selection of these Stations have been done after careful consideration of geophysical features such as faults and dykes. The list of these 41 stations is given in Annexure 'A'.

In addition, more than 300 locations have been identified where GPS could be set up for use as and when required. The list of such locations is given in Annexure 'B'.

(c) Data from the 41 GPS stations are received and archieved regularly at the national GPS Data Centre, Survey of India, Dehra Dun. Most of the stations have been set up in North Eastern States and Himalayan Belt which fall in seismically active zone (Zone- V of Seismotectonic map).

(d)The distance vector between various stations can be determined and can be indicative of the crustal movement. Data from permanent GPS Stations are shared with various research and academic institutions for crustal movements and seismotectonic studies.